

## **DYNAMIC MICRO SPEAKER WITH DUAL SUSPENSION**

### **ABSTRACT**

5           The invention relates to a micro-speaker with a second suspension made of highly  
resilient material installed inside of the speaker. The speaker is able to provide high level  
acoustic output with low distortion rate in a wide frequency range with a very small and slim  
structure and it may prevent a disconnection of a lead connecting the voice coil and the  
electrode. The speaker includes a yoke, a permanent magnet, a plate, a vibration plate  
10   integrated with a first suspension, a voice coil, a frame and a protector. The speaker further  
comprises a second suspension made of highly resilient material installed between the plate  
and the vibration plate, and is characterized in that the voice coil is attached to the lower  
surface of the second suspension and the vibration plate is attached to the upper surface of the  
second suspension and the vibration plate is attached to the upper surface of the second  
15   suspension and the outer periphery of the second suspension is fixed to the frame.